# SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

#### NO DISTRIBUTION REQUIRED

**COMMENTS:** 

SDG <u>06I-0214-01</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete

Partial

300 Area 303M Bldg







#### Cover Page

Report Identification Number:

06I-0214-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist:

Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

**DCHM** 

SAF#:

RC-001 / R303M0 J451

Payroll#: 73513



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Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
18 Jan 2006	J10X04	06101768	NMAM 7300M	G060M00P	G WIPE
18 Jan 2006	J10RH6	06I01769	NMAM 7300M	G060M00P	G WIPE
18 Jan 2006	J10X06	06I01770	NMAM 7300M	G060M00P	G WIPE
18 Jan 2006	J10X07	06I01771	NMAM 7300M	G060M00P	G WIPE

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Phone: (801) 266-7700

FAX: (801) 268-9992

Name: Lisa M. Reid

Title: Chemist

Date: January 23, 2006





#### Case Narrative Page

Report Identification Number: 06I-0214-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303M0 J451

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General Set Information: There are 5 samples in set 06I-0213-02, 4 samples in set 06I-0214-01 and 5 samples in set 06I-0215-01. The samples were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

<u>Sample Preparation:</u> All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

**Holding Times:** The holding times were met for both sample preparation and analysis.

<u>Instrument Calibration:</u> Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.1 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 3. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

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Dilution(s): None.





### Case Narrative Page

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: Two samples in this batch were replicated. The RPD between the samples and the replicates was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

**Sample Calculation:** The final results are calculated by the following equation:

Final result for aqueous samples ( $\mu$ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ( $\mu g/L$ )

B = Concentration factor from sample preparation

= <u>Final Volume of Digestate (L)</u>

Sample

C = Dilution performed at time of analysis

Example Calculation:  $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$ 

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Miscellaneous Comments: None



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## Report Page

Report Identification Number: 06I-0214-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303M0 J451

Payroll#: 73513

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sampl		Cadmiun µg/sampl	- 1	Lead μg/sample		
J10X04	06I01768	20 Jan 2006	< 0.01	U	< 0.1	U	<3.	U	
J10RH6	06I01769	20 Jan 2006	< 0.01	U	< 0.1	U	<3.	U	
J10X06	06I01770	20 Jan 2006	< 0.01	U	<0.1	U	<3.	U	
J10X07	06I01771	20 Jan 2006	< 0.01	U	< 0.1	U	<3.	U	
	Limit of I	0.	01		0.1		3.		
R	equired Detecti								

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



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## QC Summary Page

Report Identification Number: 06I-0214-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R303M0 J451

Payroll#: 73513

Batch ID: G060M00P

	QC				Parent		Percent	Relative Percent
QC Sample ID	Type	Analyte	Units	Result	Result	Target	Rec.	Diff.
BL-240257-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
BL-240257-1	MB	Cadmium	μg/sample	ND	NA	NA	NA	NA
BL-240257-1	MB	Lead	μg/sample	ND	NA	NA	NA	NA_
QC-240257-1	LCS	Beryllium	μg/sample	11.4	NA	10.0	114.	NA
QC-240257-1	LCS	Cadmium	μg/sample	33.9	NA	30.0	113.	NA
QC-240257-1	LCS	Lead	μg/sample	106.	NA _	100.	106.	NA
QD-240257-1	LCSD	Beryllium	μg/sample	11.4	11.4	10.0	114.	0.0868
QD-240257-1	LCSD	Cadmium	μg/sample	33.5	33.9	30.0	112.	1.14
QD-240257-1	LCSD	Lead	μg/sample	105.	106.	100.	105.	0.956

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) \* 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) \* 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) \* 100.

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MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) \* 100.

LD Relative Percent Diff. = ((|Parent - LD|)/((Parent + LD)/2.0)) \* 100



# **COC** Page

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		Collector.	Payroll #: 75513	Type of Sample:	Shipped To: Costa Chenn Solt Joko (1	POSSIBLE SAMPLE HAZARDREMARKS	Special Handling and/or Storage		SAMPLE NO.	JIO XO4 .	TIORH6.	J. 10x06.	. Laxol £	JICX 88 .	TIDXBY.	Trant	TIOWUZ.	J10×99.		WCH-SH-202 (08/29/2005)

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# **COC** Page

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WCH-SH-202 (0K/29/2005)			

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Enter on line below the first Sample Number from Page One:

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Payroll #: Sampling Location 735\3 300 Arec										SAF No. RC-001 24 Hs				24 Hours	<u>-</u>	
Type of Sample: 303M Building					ling R303MO J451					Method of Shipment						
Shipped To:  Data Chern  Salt Lake City  Other					ANALYSIS METHOD (SPECIFIC): FED EX Bill of Lading/Air Bill No.  NIOSH 7300  854/ 9377						77	5-340	)			
POSSIBLE SAMPLE HAZARD/RIMARKS  Be Pb Cd A - AIR  Special Handling and/or Storage W! WIPE  X - OTHER				Pı PE	Preservation (i.e., cooling required, etc.)			No	No	No	No	No	No	No	Na_	
	SAMPLE ANALYSIS  VOLUME (L) or Asbestos Lead Beryllium Beryllium Beryllium						Lead	Cd	Cd							
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